

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Rounan Li and Leonard G. Pukaite

Title: VITRIFIED SUPERABRASIVE TOOL AND METHOD OF MANUFACTURE

Date: <u>June 26, 2003</u> EXPRESS MAIL LABEL NO. <u>EV 214949113 US</u>

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
 - ☐ Copies of the cited references are enclosed.
 - ☒ Copies of cited references have been entered in prior application, U.S. Application No. 09/934,261, filed August 21, 2001, to which priority under 35 U.S.C. 120 is claimed. The earlier application contains copies of the cited references.
 - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
 - ☒ The "concise explanation" requirement (non-English references) for references **AM** and **AN** under 37 CFR 1.98(a)(3) is satisfied by:
 - ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☐ submission of the enclosed International Search Report.
 - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
 - ☐ the enclosed English language abstract.
 - ☒ English language translation of Reference AN and partial translation of Reference AM that were submitted in prior U.S. Application No. 09/934,261.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's
Initials

____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

Examiner

Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Anabela E. Taylor
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Concord, MA 01742-9133

Dated: June 26, 2003

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 26, 2003 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 2523.2002-001 APPLICANTS Rounan Li, <i>et al.</i>
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U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AA	2,309,463	26 Jan 43	Lombard, <i>et al.</i>
	AB	2,334,266	16 Nov 43	Houchins
	AC	2,343,218	29 Feb 44	Lombard
	AD	2,986,455	30 May 61	Sandmeyer
	AE	3,925,035	9 Dec 75	Keat
	AF	3,986,847	19 Oct 76	Balson
	AG	4,157,897	12 Jun 79	Keat
	AH	4,334,895	15 Jun 82	Keat
	AI	4,347,295	31 Aug 82	Herczog
	AJ	4,543,107	24 Sep 85	Rue
	AK	4,618,349	21 Oct 86	Hashimoto, <i>et al.</i>
	AA2	4,634,453	6 Jan 87	Hay, <i>et al.</i>
	AB2	4,898,597	6 Feb 90	Hay, <i>et al.</i>
	AC2	4,951,427	28 Aug 90	St. Pierre
	AD2	4,997,461	5 Mar 91	Markhoff-Matheny, <i>et al.</i>
	AE2	5,037,452	6 Aug 91	Gary, <i>et al.</i>
	AF2	5,037,453	6 Aug 91	Narayanan, <i>et al.</i>
	AG2	5,094,672	10 Mar 92	Giles, Jr., <i>et al.</i>
	AH2	5,095,665	17 Mar 92	Nagata, <i>et al.</i>
	AI2	5,118,326	2 Jun 92	Lee, <i>et al.</i>
	AJ2	5,129,919	14 Jul 92	Kalinowski, <i>et al.</i>
	AK2	5,131,923	21 Jul 92	Markhoff-Matheny, <i>et al.</i>
	AA3	5,203,886	20 Apr 93	Sheldon, <i>et al.</i>
	AB3	5,250,084	5 Oct 93	Lansell, <i>et al.</i>
	AC3	5,256,603	26 Oct 93	Andrus, <i>et al.</i>

EXAMINER	DATE CONSIDERED
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U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AD3	5,300,129	5 Apr 94	Clark
	AE3	5,401,284	28 Mar 95	Sheldon, <i>et al.</i>
	AF3	5,472,461	5 Dec 95	Li
	AG3	5,536,282	16 Jul 96	Yoon, <i>et al.</i>
	AH3	5,536,283	16 Jul 96	Sheldon, <i>et al.</i>
	AI3	5,607,489	4 Mar 97	Li
	AJ3	5,711,774	27 Jan 98	Sheldon
	AK3	5,863,308	26 Jan 99	Qi, <i>et al.</i>
	AA4	6,066,189	23 May 00	Meyer, <i>et al.</i>
	AB4	6,074,278	13 Jun 00	Wu, <i>et al.</i>
	AC4	6,086,648	11 Jul 00	Rossetti, Jr., <i>et al.</i>
	AD4	6,123,743	26 Sep 00	Carman, <i>et al.</i>
	AE4	6,217,413	17 Apr 01	Christianson
	AF4	2,332,241	19 Oct 43	Lombard, <i>et al.</i>
	AG4	6,093,225	25 Jul 00	Itoh
	AH4	6,102,789	15 Aug 00	Ramanath, <i>et al.</i>
	AI4	6,450,870 B2	17 Sep 02	Ito

EXAMINER	DATE CONSIDERED
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FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	AL	JP 10138148 abstract - Derwent World Patent Index	26 May 98	Japan		
	AM	JP 62-297070	24 Dec 87	Japan		
	AN	JP 63-256364	24 Oct 88	Japan		
	AO	SU 1418730	24 Dec 75	Soviet Union	X	
	AP	JP 54/39292	26 Mar 79	Japan	X	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	AR	R.H. Wentorf, Jr., Carbon (Diamond, Synthetic), Kirk-Othmer, <i>Encyclopedia of Chemical Technology</i> , 4 th Ed., Vol. 4, pp.1082-1096.
	AS	Barry, T.I., <i>et al.</i> , "The Strength of Experimental Grinding Wheel Materials including Use of Novel Glass and Glass-Ceramic Bonds," Trans. J. Brit. Ceram. Soc., 79:139-145(1980).
	AT	"Abrasives," Ullman's Encyclopedia of Industrial Chemistry, VCH, 5th Ed. Vol. A1:11-12(1985).
	AU	"Tables and Figures," Handbook of Glass Properties, Bansal, <i>et al.</i> , Academic Press, Inc. p. 385 (1986).
	AV	Kingery, W.D., "Introduction to Ceramics," Wiley & Sons, 2 nd Ed. pp.778-882(1976).
	AW	Kirk-Othmer, <i>Encyclopedia of Chemical Technology</i> , 3 rd Ed., Vol.5, p.263 (1979).
	AX	<i>Encyclopedia of Materials Science and Engineering</i> , Vol. 3, Pergamon Press Ltd., pp. 2205-2208 (1986).
	AU	
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